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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/898,216

DATE: 01/25/2002

TIME: 16:58:04

Input Set : N:\Crf3\RULE60\09898216.raw  
 Output Set: N:\CRF3\01252002\I898216.raw

## SEQUENCE LISTING

3 (1) GENERAL INFORMATION:  
 5 (i) APPLICANT: Hillman, Jennifer L.  
 6 Goli, Surya K.  
 8 (ii) TITLE OF INVENTION: NOVEL HUMAN MEMBRANE PROTEIN  
 10 (iii) NUMBER OF SEQUENCES: 7  
 12 (iv) CORRESPONDENCE ADDRESS:  
 13 (A) ADDRESSEE: Incyte Pharmaceuticals, Inc.  
 14 (B) STREET: 3174 Porter Drive  
 15 (C) CITY: Palo Alto  
 16 (D) STATE: CA  
 17 (E) COUNTRY: USA  
 18 (F) ZIP: 94304  
 20 (v) COMPUTER READABLE FORM:  
 21 (A) MEDIUM TYPE: Diskette  
 22 (B) COMPUTER: IBM Compatible  
 23 (C) OPERATING SYSTEM: DOS  
 24 (D) SOFTWARE: FastSEQ for Windows Version 2.0  
 26 (vi) CURRENT APPLICATION DATA:  
 27 (A) APPLICATION NUMBER: US/09/898,216  
 28 (B) FILING DATE: 02-Jul-2001  
 29 (C) CLASSIFICATION:  
 31 (vii) PRIOR APPLICATION DATA:  
 32 (A) APPLICATION NUMBER: 08/781,562  
 33 (B) FILING DATE:  
 35 (viii) ATTORNEY/AGENT INFORMATION:  
 36 (A) NAME: Billings, Lucy J.  
 37 (B) REGISTRATION NUMBER: 36,749  
 38 (C) REFERENCE/DOCKET NUMBER: PF-0181 US  
 40 (ix) TELECOMMUNICATION INFORMATION:  
 41 (A) TELEPHONE: 415-855-0555  
 42 (B) TELEFAX: 415-845-4166  
 43 (C) TELEX:  
 46 (2) INFORMATION FOR SEQ ID NO: 1:  
 48 (i) SEQUENCE CHARACTERISTICS:  
 49 (A) LENGTH: 356 amino acids  
 50 (B) TYPE: amino acid  
 51 (C) STRANDEDNESS: single  
 52 (D) TOPOLOGY: linear  
 54 (vii) IMMEDIATE SOURCE:  
 55 (A) LIBRARY: Consensus  
 56 (B) CLONE: Consensus  
 58 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

ENTERED

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Input Set : N:\Crf3\RULE60\09898216.raw  
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60 Met Leu Ala Arg Ala Ala Arg Gly His Trp Gly Pro Phe Ala Glu Gly  
61 1 5 10 15  
62 Leu Ser Thr Gly Phe Trp Pro Arg Ser Gly Arg Ala Ser Ser Gly Leu  
63 20 25 30  
64 Pro Arg Asn Thr Val Val Leu Phe Val Pro Gln Gln Glu Ala Trp Val  
65 35 40 45  
66 Val Glu Arg Met Gly Arg Phe His Arg Ile Leu Glu Pro Gly Leu Asn  
67 50 55 60  
68 Ile Leu Ile Pro Val Leu Asp Arg Ile Arg Tyr Val Gln Ser Leu Lys  
69 65 70 75 80  
70 Glu Ile Val Ile Asn Val Pro Glu Gln Ser Ala Val Thr Leu Asp Asn  
71 85 90 95  
72 Val Thr Leu Gln Ile Asp Gly Val Leu Tyr Leu Arg Ile Met Asp Pro  
73 100 105 110  
74 Tyr Lys Ala Ser Tyr Gly Val Glu Asp Pro Glu Tyr Ala Val Thr Gln  
75 115 120 125  
W--> 76 Leu Ala Gln Thr Thr Met Arg Ser Glu Leu Gly Lys Leu Ser Xaa Asp  
77 130 135 140  
78 Lys Val Phe Arg Glu Arg Glu Ser Leu Asn Ala Ser Ile Val Asp Ala  
79 145 150 155 160  
80 Ile Asn Gln Ala Ala Asp Cys Trp Gly Ile Arg Cys Leu Arg Tyr Glu  
81 165 170 175  
82 Ile Lys Asp Ile His Val Pro Pro Arg Val Lys Glu Ser Met Gln Met  
83 180 185 190  
84 Gln Val Glu Ala Glu Arg Arg Lys Arg Ala Thr Val Leu Glu Ser Glu  
85 195 200 205  
86 Gly Thr Arg Glu Ser Ala Ile Asn Val Ala Glu Gly Lys Lys Gln Ala  
87 210 215 220  
88 Gln Ile Leu Ala Ser Glu Ala Glu Lys Ala Glu Gln Ile Asn Gln Ala  
89 225 230 235 240  
90 Ala Gly Glu Ala Ser Ala Val Leu Ala Lys Ala Lys Ala Lys Ala Glu  
91 245 250 255  
92 Ala Ile Arg Ile Leu Ala Ala Leu Thr Gln His Asn Gly Asp Ala  
93 260 265 270  
94 Ala Ala Ser Leu Thr Val Ala Glu Gln Tyr Val Ser Ala Phe Ser Lys  
95 275 280 285  
96 Leu Ala Lys Asp Ser Asn Thr Ile Leu Leu Pro Ser Asn Pro Gly Asp  
97 290 295 300  
98 Val Thr Ser Met Val Ala Gln Ala Met Gly Val Tyr Gly Ala Leu Thr  
99 305 310 315 320  
100 Lys Ala Pro Val Pro Gly Thr Pro Asp Ser Leu Ser Ser Gly Ser Ser  
101 325 330 335  
W--> 102 Arg Asp Val Gln Gly Thr Asp Ala Ser Xaa Asp Glu Glu Leu Asp Arg  
103 340 345 350  
104 Val Lys Met Ser  
105 355  
107 (2) INFORMATION FOR SEQ ID NO: 2:  
109 (i) SEQUENCE CHARACTERISTICS:  
110 (A) LENGTH: 1188 base pairs

RAW SEQUENCE LISTING  
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Input Set : N:\Crf3\RULE60\09898216.raw  
Output Set: N:\CRF3\01252002\I898216.raw

111 (B) TYPE: nucleic acid  
112 (C) STRANDEDNESS: single  
113 (D) TOPOLOGY: linear  
115 (vii) IMMEDIATE SOURCE:  
116 (A) LIBRARY: Consensus  
117 (B) CLONE: Consensus  
119 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:  
121 GGCTTCTGGG AGCNACCGCT CCGCTCGTCT CGTTGGTTCC GGAGGTCGCT GCGGCGGTGG 60  
122 GAAATGCTGG CGCGCGCGC GCGGGGGCAC TGGGGCCCTT TTGCTGAGGG GCTCTCTACT 120  
123 GGCTTCTGGC CGCGCTCCGG CCGCGCCTCC TCTGGATTGC CCCGAAACAC CGTGGTACTG 180  
124 TTCGTGCCGC AGCAGGAGGC CTGGGTGGTG GAGCGAATGG GCGGATTCCA CCGGATCCTG 240  
125 GAGCCTGGTT TGAACATCCT CATCCCTGTG TTAGACCGGA TCCGATATGT GCAGAGTCTC 300  
126 AAGGAAATG TCATCAACGT GCCTGAGCAG TCGGCTGTGA CTCTCGACAA TGTAACTCTG 360  
127 CAAATCGATG GAGTCCCTTA CCTGCGCATC ATGGACCCTT ACAAGGCAAG CTACGGTGTG 420  
128 GAGGACCTG AGTATGCCGT CACCCAGCTA GCTCAAACAA CCATGAGATC AGAGCTCGGC 480  
129 AAACTCTCTN TGGACAAAGT CTTCCGGAA CGGGAGTCCC TGAATGCCAG CATTGTGGAT 540  
130 GCCATCAACC AAGCTGCTGA CTGCTGGGGT ATCCGCTGCC TNCGTTATGA GATCAAGGAT 600  
131 ATCCATGTGC CACCCCGGGT GAAAGAGTCT ATGCAGATGC AGGTGGAGGC AGAGCGGC 660  
132 AAACGGGCCA CAGTCTAGA GTCTGAGGG ACCCGAGAGT CGGCCATCAA TGTGGCAGAA 720  
133 GGGAAAGAAC AGGCCAGAT CCTGGCCTCC GAAGCAGAAA AGGCTGAACA GATAAATCAG 780  
134 GCAGCAGGAG AGGCCAGTGC AGTTCTGGCG AAGGCCAAGG CTAAAGCTGA AGCTATTGCA 840  
135 ATCCTGGCTG CAGCTCTGAC ACAACATAAT GGAGATGCCAG CAGCTTCACT GACTGTGGCC 900  
136 GAGCAGTATG TCAGCGCGTT CTCCAAACTG GCCAAGGACT CCAACACTAT CCTACTGCC 960  
137 TCCAACCTG GCGATGTCAC CAGCATGGTG GCTCAGGCCA TGGGTGTATA TGGAGCCCTC 1020  
138 ACCAAAGCCC CAGTGCCAGG GACTCCAGAC TCACTCTCCA GTGGGAGCAG CAGAGATGTC 1080  
139 CAGGGTACAG ATGCAAGTNT TGATGAGGAA CTTGATCGAG TCAAGATGAG TTAGTGGAGC 1140  
140 TGGGCTTNGC CAGGGAGTCT GGGGACAAGG AAGCAGATT TCCTGATT 1188  
142 (2) INFORMATION FOR SEQ ID NO: 3:  
144 (i) SEQUENCE CHARACTERISTICS:  
145 (A) LENGTH: 288 amino acids  
146 (B) TYPE: amino acid  
147 (C) STRANDEDNESS: single  
148 (D) TOPOLOGY: linear  
150 (vii) IMMEDIATE SOURCE:  
151 (A) LIBRARY: Genbank  
152 (B) CLONE: 31069  
154 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:  
156 Met Ala Glu Lys Arg His Thr Arg Asp Ser Glu Ala Gln Arg Leu Pro  
157 1 5 10 15  
158 Asp Ser Phe Lys Asp Ser Pro Ser Lys Gly Leu Gly Pro Cys Gly Trp  
159 20 25 30  
160 Ile Leu Val Ala Phe Ser Phe Leu Phe Thr Val Ile Thr Phe Pro Ile  
161 35 40 45  
162 Ser Ile Trp Met Cys Ile Lys Ile Ile Lys Glu Tyr Glu Arg Ala Ile  
163 50 55 60  
164 Ile Phe Arg Leu Gly Arg Ile Leu Gln Gly Gly Ala Lys Gly Pro Gly  
165 65 70 75 80  
166 Leu Phe Phe Ile Leu Pro Cys Thr Asp Ser Phe Ile Lys Val Asp Met  
167 85 90 95

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Input Set : N:\Crf3\RULE60\09898216.raw  
Output Set: N:\CRF3\01252002\I898216.raw

168 Arg Thr Ile Ser Phe Asp Ile Pro Pro Gln Glu Ile Leu Thr Lys Asp  
169 100 105 110  
170 Ser Val Thr Ile Ser Val Asp Gly Val Val Tyr Tyr Arg Val Gln Asn  
171 115 120 125  
172 Ala Thr Leu Ala Val Ala Asn Ile Thr Asn Ala Asp Ser Ala Thr Arg  
173 130 135 140  
174 Leu Leu Ala Gln Thr Thr Leu Arg Asn Val Leu Gly Thr Lys Asn Leu  
175 145 150 155 160  
176 Ser Gln Ile Leu Ser Asp Arg Glu Glu Ile Ala His Asn Met Gln Ser  
177 165 170 175  
178 Thr Leu Asp Asp Ala Thr Asp Ala Trp Gly Ile Lys Val Glu Arg Val  
179 180 185 190  
180 Glu Ile Lys Asp Val Lys Leu Pro Val Gln Leu Gln Arg Ala Met Ala  
181 195 200 205  
182 Ala Glu Ala Glu Ala Ser Arg Glu Ala Arg Ala Lys Val Ile Ala Ala  
183 210 215 220  
184 Glu Gly Glu Met Asn Ala Ser Arg Ala Leu Lys Glu Ala Ser Met Val  
185 225 230 235 240  
186 Ile Thr Glu Ser Pro Ala Ala Leu Gln Leu Arg Tyr Leu Gln Thr Leu  
187 245 250 255  
188 Thr Thr Ile Ala Ala Glu Lys Asn Ser Thr Ile Val Phe Pro Leu Pro  
189 260 265 270  
190 Ile Asp Met Leu Gln Gly Ile Ile Gly Ala Lys His Ser His Leu Gly  
191 275 280 285

193 (2) INFORMATION FOR SEQ ID NO: 4:

195 (i) SEQUENCE CHARACTERISTICS:  
196 (A) LENGTH: 280 amino acids  
197 (B) TYPE: amino acid  
198 (C) STRANDEDNESS: single  
199 (D) TOPOLOGY: linear

201 (vii) IMMEDIATE SOURCE:

202 (A) LIBRARY: GenBank  
203 (B) CLONE: 1065452

205 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:

207 Met Asn Leu Lys Thr Cys Ser Leu Ser Thr His Ser Phe Leu Gln Lys  
208 1 5 10 15  
209 Lys Asn Glu Lys His Asp Gly Asn Pro Glu His Tyr Asp Thr Gly Leu  
210 20 25 30  
211 Gly Phe Cys Gly Trp Phe Leu Met Gly Leu Ser Trp Ile Met Val Ile  
212 35 40 45  
213 Ser Thr Phe Pro Val Ser Ile Tyr Phe Cys Met Lys Val Val Gln Glu  
214 50 55 60  
215 Tyr Glu Arg Ala Val Ile Phe Arg Leu Gly Arg Leu Ile Gly Gly Gly  
216 65 70 75 80  
217 Ala Lys Gly Pro Gly Ile Phe Phe Val Leu Pro Cys Ile Glu Ser Tyr  
218 85 90 95  
219 Thr Lys Val Asp Leu Arg Thr Val Ser Phe Ser Val Pro Pro Gln Glu  
220 100 105 110  
221 Ile Leu Thr Lys Asp Ser Val Thr Ser Val Asp Ala Val Ile Tyr

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/898,216

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Input Set : N:\Crf3\RULE60\09898216.raw  
Output Set: N:\CRF3\01252002\I898216.raw

222 115 120 125  
223 Tyr Arg Ile Ser Asn Ala Thr Val Ser Val Ala Asn Val Glu Asn Ala  
224 130 135 140  
225 His His Ser Thr Arg Leu Leu Ala Gln Thr Thr Leu Arg Asn Met Leu  
226 145 150 155 160  
227 Gly Thr Arg Ser Leu Ser Glu Ile Leu Ser Asp Arg Glu Thr Leu Ala  
228 165 170 175  
229 Ala Ser Met Gln Thr Ile Leu Asp Glu Ala Thr Glu Ser Trp Gly Ile  
230 180 185 190  
231 Lys Val Glu Arg Val Glu Ile Lys Asp Val Arg Leu Pro Ile Gln Leu  
232 195 200 205  
233 Gln Arg Ala Met Ala Ala Glu Ala Glu Ala Thr Arg Glu Ala Arg Ala  
234 210 215 220  
235 Lys Val Ile Ala Ala Glu Gly Glu Gln Lys Ala Ser Arg Ala Leu Arg  
236 225 230 235 240  
237 Asp Ala Ala Ser Val Ile Ala Gln Ser Pro Ala Ala Leu Gln Leu Arg  
238 245 250 255  
239 Tyr Leu Gln Thr Leu Asn Ser Val Ala Arg Glu Lys Phe Asp Asp His  
240 260 265 270  
241 Leu Pro Thr Ser Asp Gly Ile Ser  
242 275 280  
244 (2) INFORMATION FOR SEQ ID NO: 5:  
246 (i) SEQUENCE CHARACTERISTICS:  
247 (A) LENGTH: 415 amino acids  
248 (B) TYPE: amino acid  
249 (C) STRANDEDNESS: single  
250 (D) TOPOLOGY: linear  
252 (vii) IMMEDIATE SOURCE:  
253 (A) LIBRARY: GenBank  
254 (B) CLONE: 1353669  
256 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:  
258 Met Glu Tyr Gly Met Pro Glu Gly Ser Tyr Asp Ser Val Phe Thr Tyr  
259 1 5 10 15  
260 Ala Pro Tyr Asn Asp Leu Asp Lys Met Gly Tyr Met Gly Pro Ala Arg  
261 20 25 30  
262 Gln Gly Met Met Leu Gly Asn Lys Tyr Gly Asn Phe Thr Tyr Thr Arg  
263 35 40 45  
264 Asp Tyr Gly Val Asn Met Glu Asp Asp Ile Lys Pro Leu Ser Ala Ile  
265 50 55 60  
266 Glu Leu Leu Ile Phe Cys Val Ser Phe Leu Phe Val Val Met Thr Met  
267 65 70 75 80  
268 Pro Leu Ser Leu Leu Phe Ala Leu Lys Phe Ile Ser Thr Ser Glu Lys  
269 85 90 95  
270 Leu Val Val Leu Arg Leu Gly Arg Ala Gln Lys Thr Arg Gly Pro Gly  
271 100 105 110  
272 Ile Thr Leu Val Ile Pro Cys Ile Asp Thr Thr His Lys Val Thr Met  
273 115 120 125  
274 Ser Ile Thr Ala Phe Asn Val Pro Pro Leu Gln Ile Ile Thr Thr Asp  
275 130 135 140

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/898,216

DATE: 01/25/2002

TIME: 16:58:05

Input Set : N:\Crf3\RULE60\09898216.raw

Output Set: N:\CRF3\01252002\I898216.raw

L:27 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]

L:28 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]

L:76 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1

L:102 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1